

CON-PRA-051

CONFIRMATORY METHODS

GC-MS data analysis

• Context

Some pesticides such as fipronil are known to be persistent in the environment and finally in food from animal origin such as eggs or milk by-products. Residues are present at ultra-trace levels, and need hyphenated analytical development to be measured.

• General objective(s)

The aim of this practical module is to show how to quantify pesticide residues in foodstuff after GC-MS analysis.

• Main items

MRM Mode/calibration curves/MRL

• Pedagogical objectives

- ✓ To know how to check all the critical points regarding quantitation
- ✓ To learn how pesticide residues are quantified in a sample of animal origin

• Pedagogical tools

- ✓ Slide show
- ✓ GC-MS/MS Data
- ✓ Masslynx software or other instrument software
- ✓ Quantification sheet

• Duration

- ✓ 1 hour

• Pre-requisite

- ✓ MS part I: Ionisation (CON-THE-010)
- ✓ MS part II: Detection and acquisition (CON-THE-020)
- ✓ Chromatographic-MS coupling (CON-THE-030)
- ✓ European Criteria (Quat-THE-010)